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ACCOMPANYING REPORTS OF

MISSOURI GEOLOGICAL SURVEY,

1874.

C. C. BROADHEAD, State Geologist.

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MISSOURI GEOLOGICAL SURVEY.

CEDAR COUNTY

BY

G. C. BROADHEAD.

Drawn by
T. J. CALDWELL.

ST. CLAIR CO.

Fe	Coal Measures	Coal	
Ff	Ferruginous Sandstone	„ Mine	T36
Fh	Keokuk Group	Iron Ore	
Fi	Encrinital „	Mill	
Fjkl	Choteau Group	Chalybeate Spring	
Fv	2nd Magnesian Limestone	Spring	

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MISSOURI GEOLOGICAL SURVEY.

BARTON COUNTY

BY

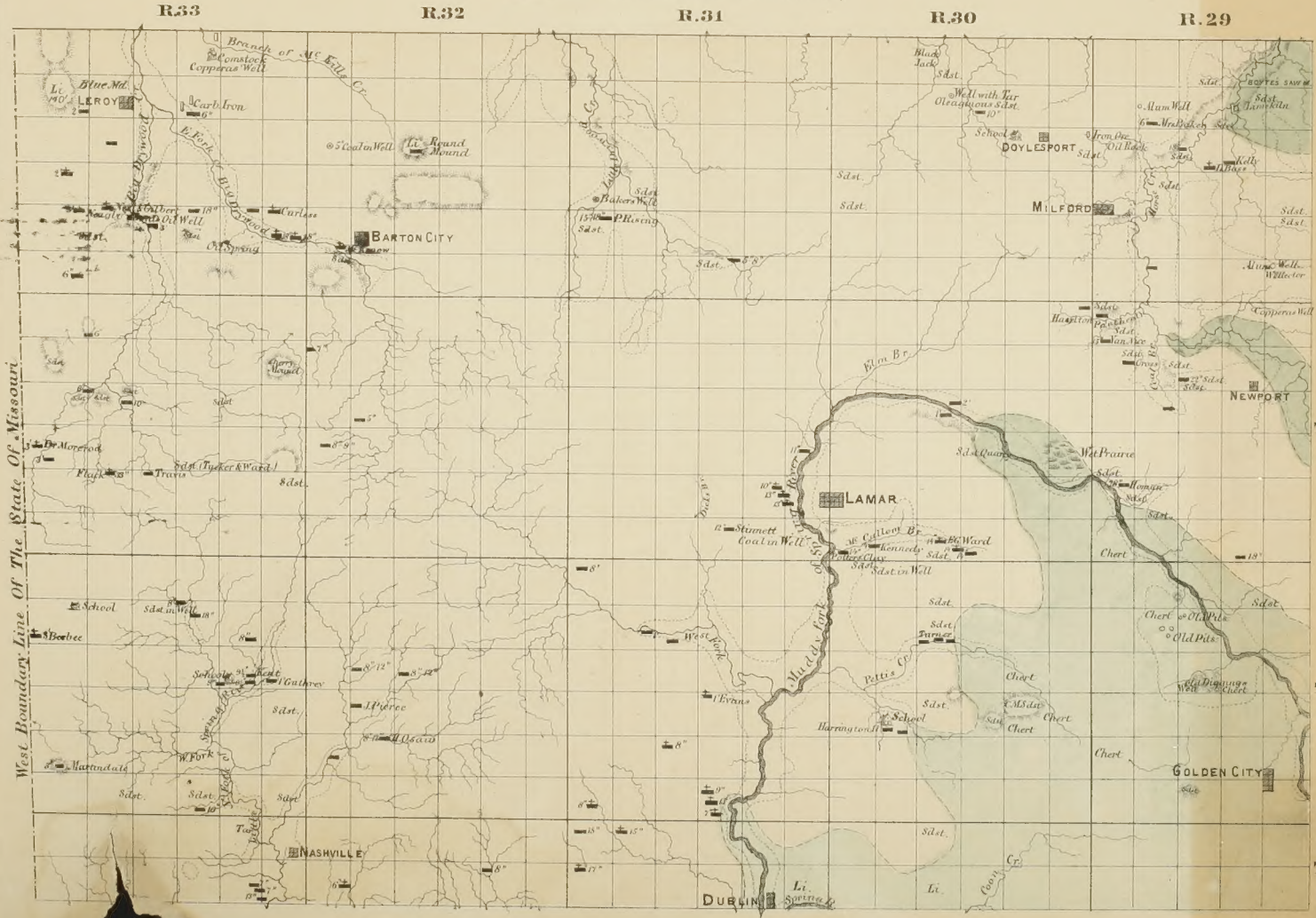
G. C. BROADHEAD.

Drawn by

T. J. CALDWELL.

Coal Measures

Lower Carboniferous – Keokuk Group



MISSOURI GEOLOGICAL SURVEY.

VERNON COUNTY

BY

G. C. BROADHEAD.

Drawn by

T. J. CALDWELL.

Coal Measures

Lower Carboniferous

C 88045

MISSOURI

GEOLOGICAL SURVEY

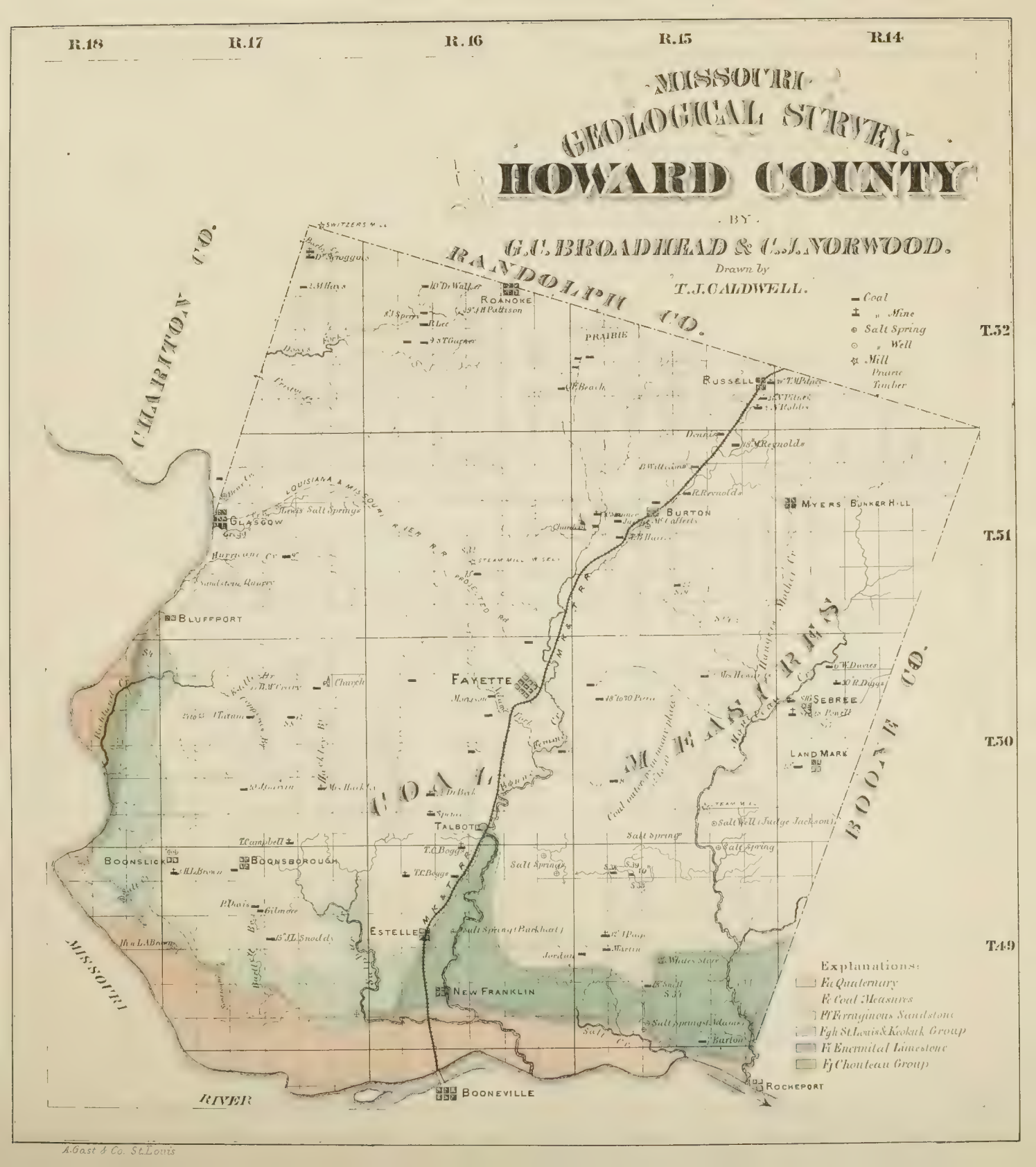
BATES COUNTY

BY

G. C. BROADHEAD.

Drawn by

T. J. CALDWELL.


R.18
R.17
R.16
R.15
R14
MISSOURI
GEOLOGICAL SURVEY.
HOWARD COUNTY
BY
G.C. BROADHEAD & C.J. NORWOOD.
Drawn by
T.J. CALDWELL.
Coal
Coal Mine
Salt Spring
Salt Well
Mill
Prairie
Timber
T.52
T.51
T.50
T.49
CHARITON CO.
RANDOLPH CO.
BOONE CO.
MISSOURI RIVER
Missouri River
Louisiana & Missouri River R.R.
Proj. R.R.
GLASGOW
BLUFFPORT
FAYETTE
BURTON
RUSSELL
PRAIRIE
ROANOKE
MYERS
BUNKER HILL
SEBREE
LAND MARK
TALBOTT
BOONSLICK
BOONSBOROUGH
ESTELLE
NEW FRANKLIN
BOONEVILLE
ROCHEPORT
Howes Salt Springs
Salt Springs
Salt Well (Judge Jackson)
Coal under Plum and places
Explanations:
Fa Quaternary
Fc Coal Measures
Pf Ferruginous Sandstone
Fgh St. Louis & Keokuk Group
Fi Encrinital Limestone
Fj Chouteau Group
A. Gast & Co. St. Louis

MISSOURI GEOLOGICAL SURVEY.

G. C. BROADHEAD.

STATE GEOLOGIST,

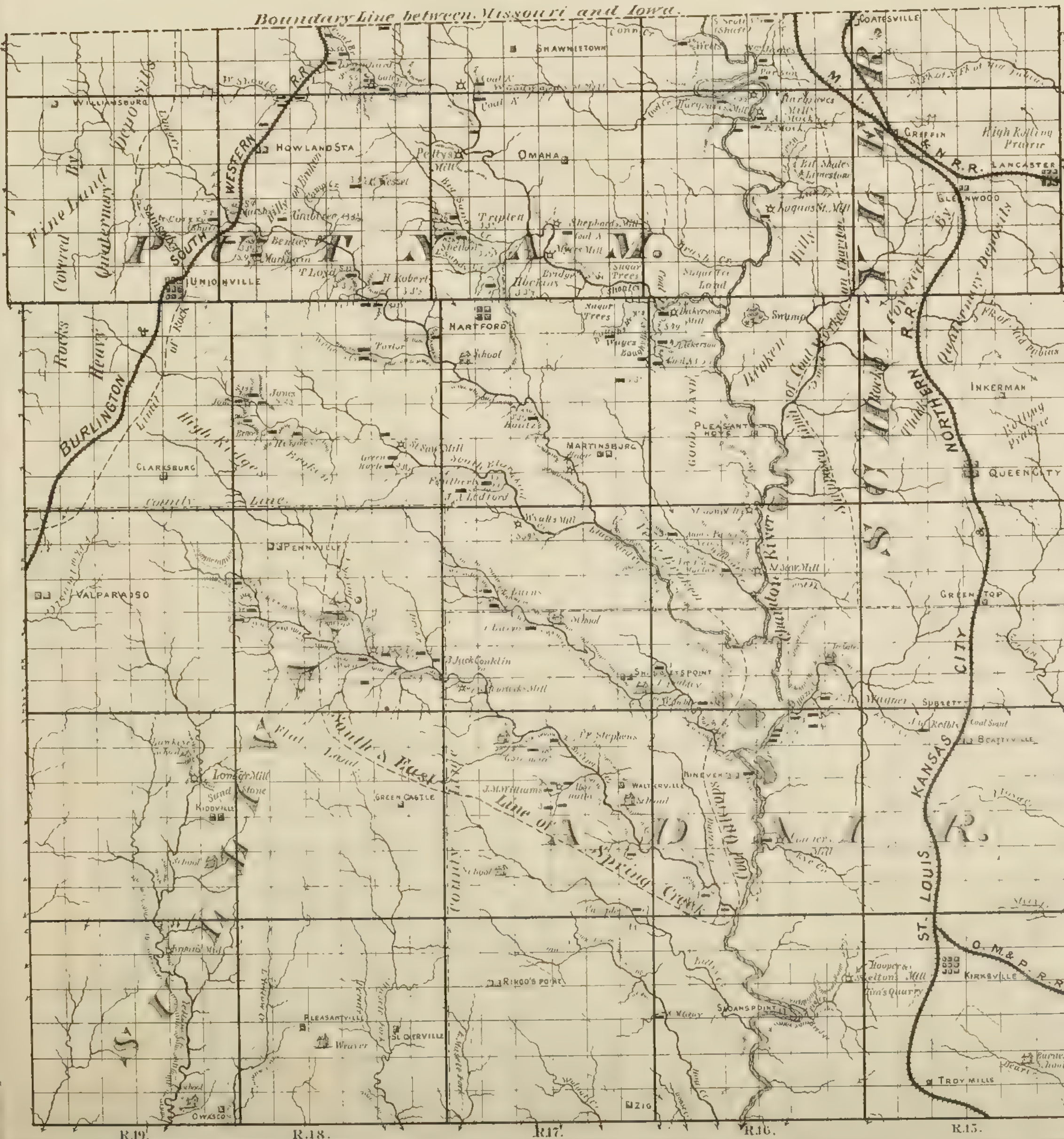
PART OF NORTHERN MISSOURI

BY

G. C. BROADHEAD & C. J. NORWOOD.

Drawn by

T. J. CALDWELL.



Hast & Co. St. Louis

MISSOURI GEOLOGICAL SURVEY.

G. C. BROADHEAD.
STATE GEOLOGIST.

MADISON COUNTY

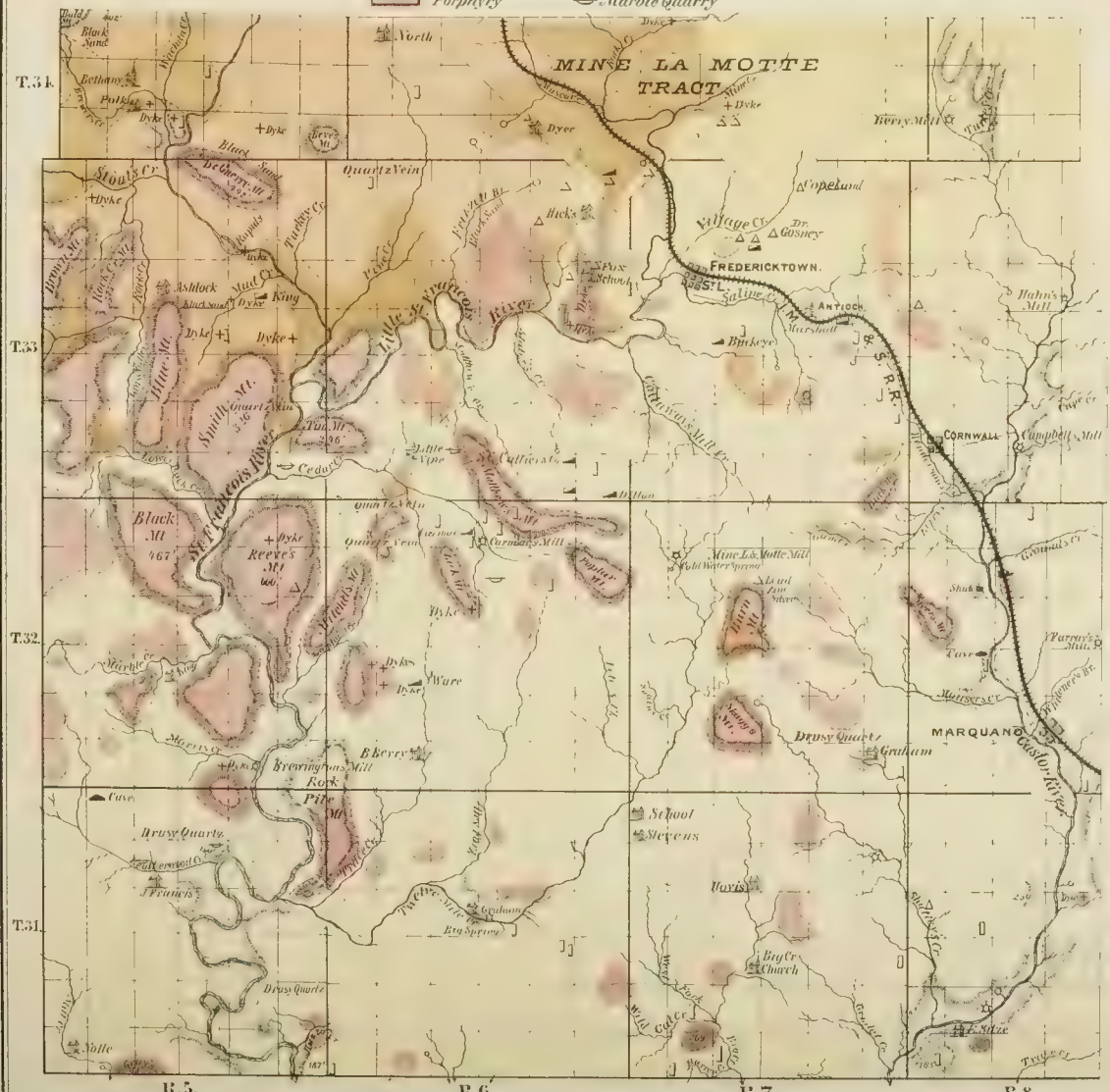
BY

C. L. NORWOOD, & G. C. BROADHEAD

Drawn by
T. J. CALDWELL.

Explanations.

Quaternary	+ *Trap Dyke*
Chert & Limestone	] *Iron*
Sandstone	△ *Lead*
Granite	▬ *Copper*
Porphyry	⊖ *Marble Quarry*



GEOLOGICAL MAP OF JASPER COUNTY

BY

C. C. BROADHEAD, STATE GEOLOGIST,
AND C. J. NORWOOD, ASS'T. GEOLOGIST,

WITH LEAD REGION OF JASPER AND NEWTON COUNTIES

BY

A. SCHMIDT } ASS'T. GEOLOGISTS.
AND A. LEONHARD }

Drawn by T. J. Caldwell.

Explanations:

Coal Mine
Coal
Vine Ore
Coal Measures
Lower Carboniferous
Lead Ore
" Furnace
Mill

R.33 R.32 R.31 R.30 R.29 R.28

T30 T29 T28 T27 T26 T25 T24

MIDWAY
MEDOC
GEORGIA CITY
GALESBURGH
PRESTON
ALBA
MARIETTA
TWIN GROVES
ORONOGO
MINERSVILLE
SMITHFIELD
CARTHAGE
KNIGHTS
JASPER
REEDS
AVILLA
JOPLIN
SCOTLAND
FIDELITY
DIAMOND CITY
SARCOXIE
THURMAN
QUAPAW
RITCHEY
BERWICK
PIERCE CITY
GRANBY CITY
GRANBY
DAYTONA
NEOSHO
NOBLETON
NEWTONIA
JOLLIFICATION
SENECA
KENT

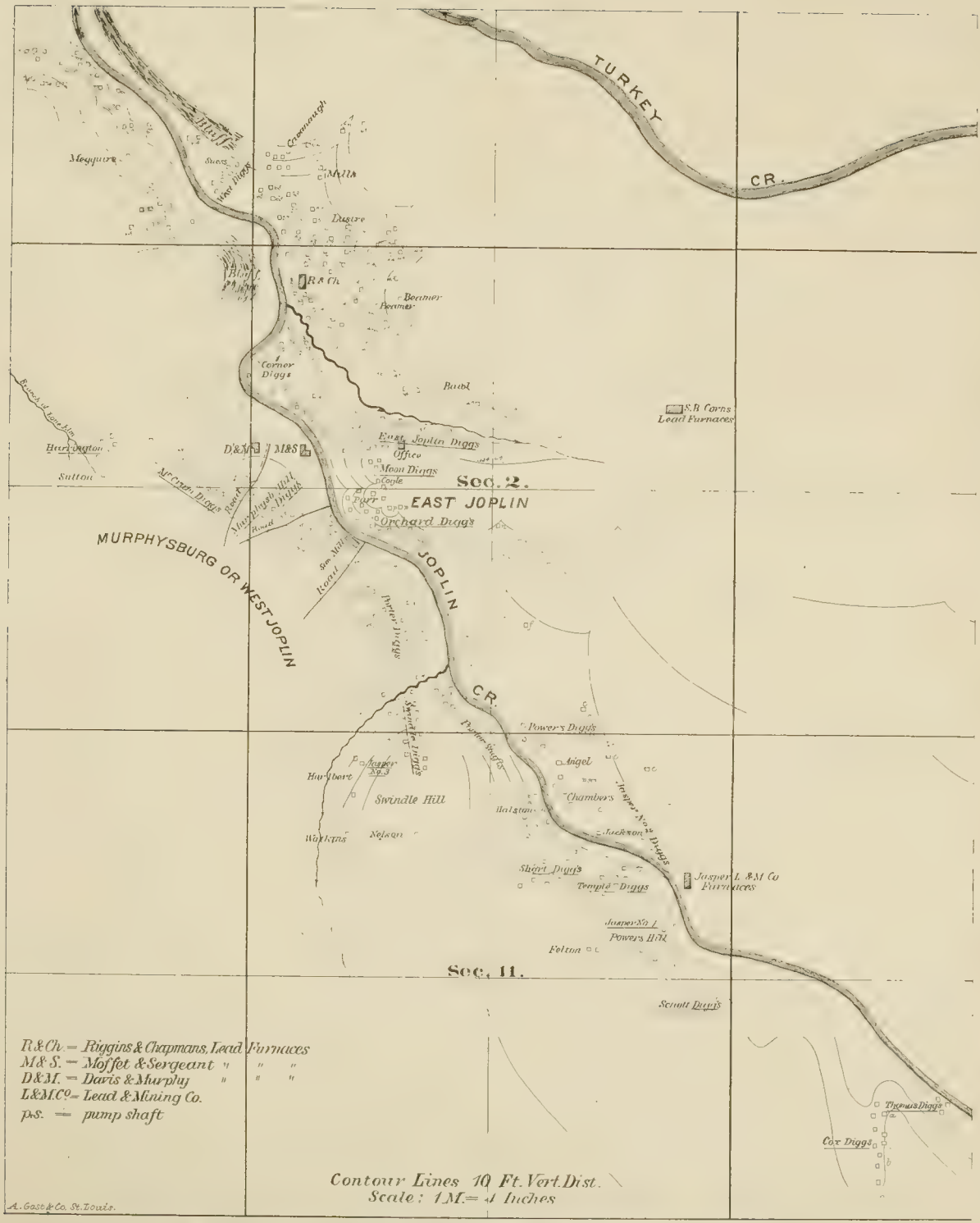
GOOD LAND
CHERTY
SANDSTONE
JASPER COUNTY
NEWTON COUNTY
DADE CO.
LAWRENCE CO.
BARRY CO. MO.

DIAMOND PRAIRIE
BROCK PRAIRIE
OLIVER'S PRAIRIE
JOE'S PRAIRIE
SPURGEON PRAIRIE
SARCOXIE PRAIRIE

MEMPHIS CARTHAGE & NORTHWESTERN R.R.
ATLANTIC & PACIFIC R.R.
SHORT LINE R.R.

Spring River
Shoal Creek
Centre Creek
Turkey Creek
Buck Creek
Dry Fork
Deer Creek
Oak Fork
Carver Creek
Grant Creek
Warrior Creek
Rock Creek
Five Mile Creek
Spurgeon Creek
Cowskin Creek
Little Indian Creek
Indian Creek
Little Elk Creek
Elk Creek
Hickory Creek
Prairie Diggs
Ham Diggs
Johnson Diggs
Thurman Diggs
Conley Diggs
Sibley Diggs
Harrison Creek
Little Indian Creek
Jays Creek
Rattan Creek

County Line



SKETCH OF THE JOPLIN LEAD DISTRICT, T. 27 N. R. 33 W.

MISSOURI

GEOLOGICAL SURVEY

G. C. BROADHEAD,
STATE GEOLOGIST,

MAP OF THE LEAD REGION OF CENTRAL MISSOURI

BY A. SCHMIDT — Drawn by T. J. Caldwell.

Explanations:

Fl Encrinital Limestone
Fj Chouteau "
Fu Saccharoidal Sandstone
Fv Second Mag. Limestone
Fw " Sandstone
Fy Third "
Fx Third Mag. Limestone
▲ Lead
▲ " Furnace
□ Iron
□ " Furnace
— Coal
Fz Fourth Mag. Limestone

MISSOURI GEOLOGICAL SURVEY.

MAP OF GRANBY MINES

NEWTON COUNTY.

SURVEYED BY G. HENRICH CIVIL ENG. 1873.

SCALE 300 FT = 1 IN.

EXPLANATIONS.

- indicate Shafts worked at time of survey
- " " older Shafts not worked at present
- " " Shafts filled up to some extent at bottom
- " " " " caved in and filled up entirely
- Wells (mostly old Shafts)

The contours have vert. dist. of 10 ft. The elevations are referred to Granby Station which is 1015 above tide or 610 above St. Louis City Directrix

DUTCH HOLLOW

VILLAGE SHAFTS

BROCK HOLLOW

HARD SHAFT DIGGINGS

CRAB TREE DIGGINGS

HOLMAN SHAFTS

ASHCRAFTS HOLLOW

CENTRE OF SEC. 6 T 25 R. 30

EAST POINT

BELEW SHAFTS

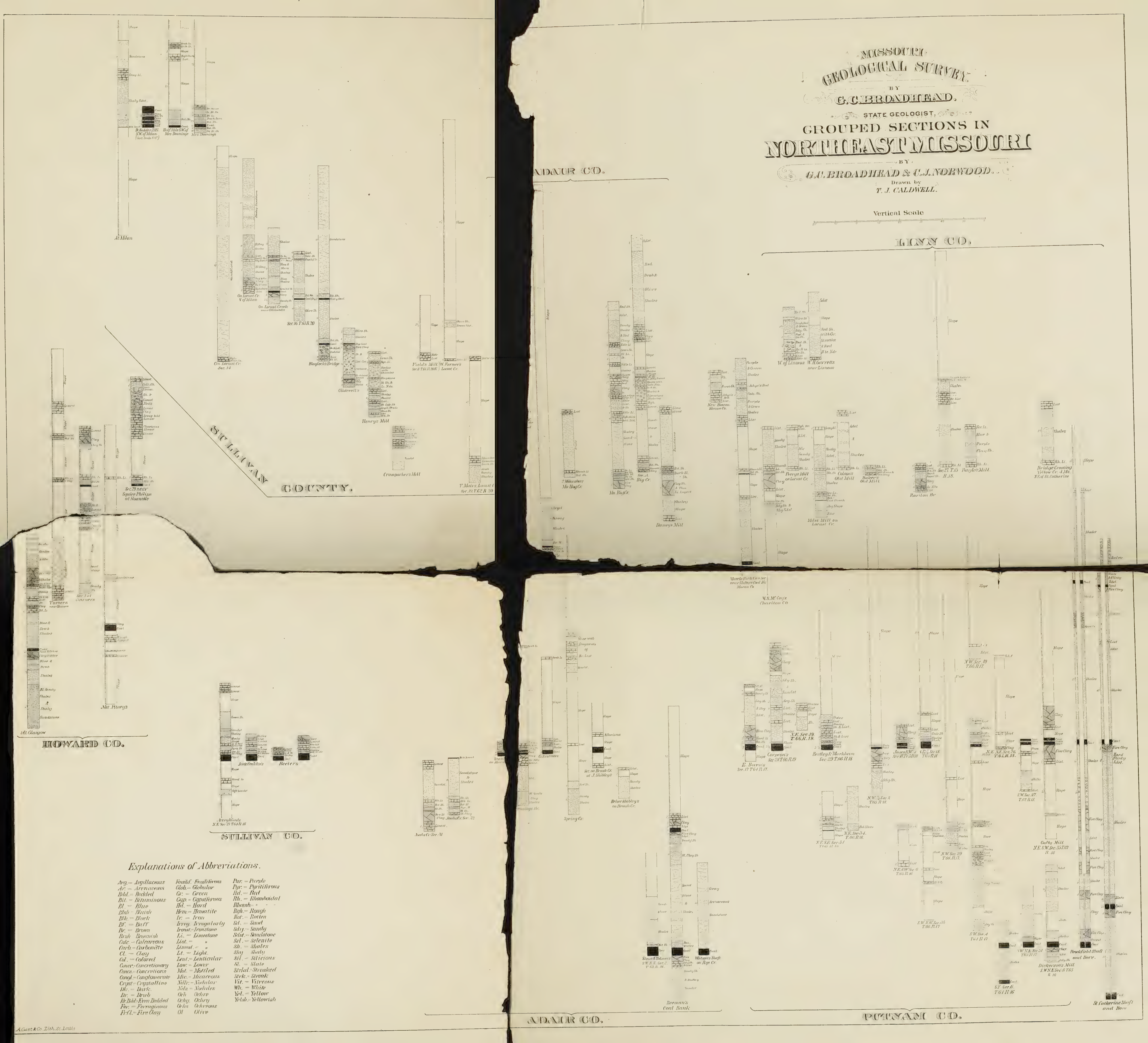
POOR MANS POINT

CHESTER SHAFTS

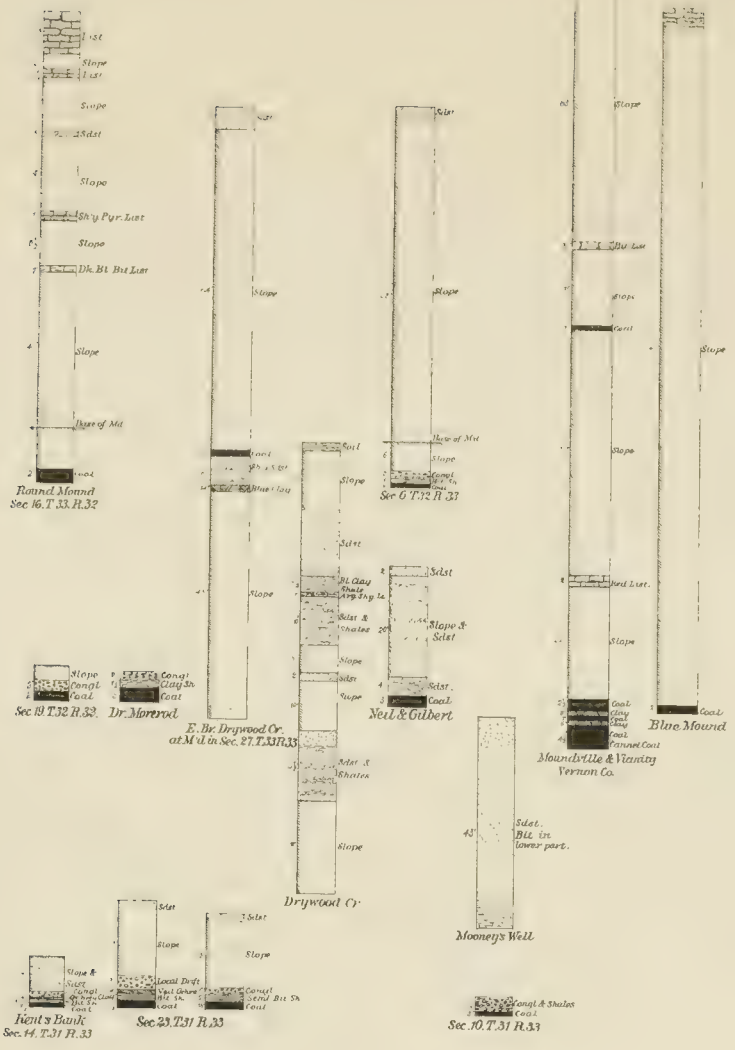
FRAZIER DIGGINGS

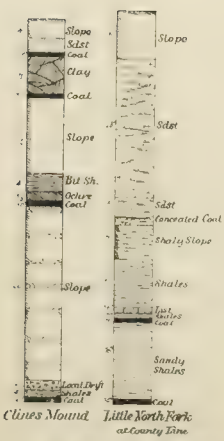
Old Fishers Well

A. Gast & Co. St. Louis.

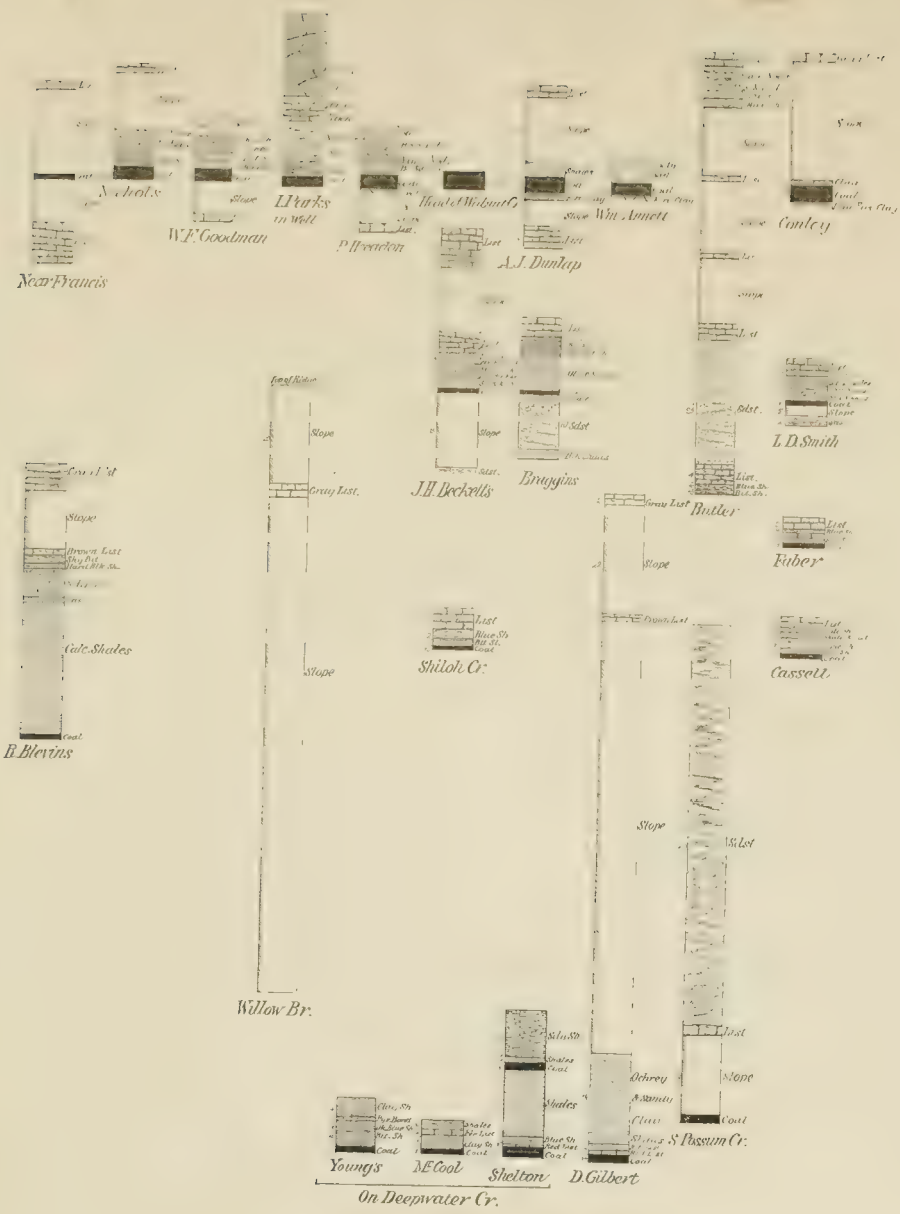


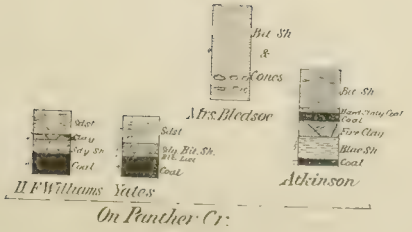
MISSOURI
GEOLOGICAL SURVEY
BY
G. C. BROADHEAD.
STATE GEOLOGIST.
GROUPED SECTIONS IN
NORTHEAST MISSOURI
BY
G. C. BROADHEAD & C. J. NORWOOD.
Drawn by
T. J. CALDWELL.
Vertical Scale
ADAIR CO.
LINN CO.
SULLIVAN COUNTY.
HOWARD CO.
SULLIVAN CO.
ADAIR CO.
PUTNAM CO.
At Milan
At Glasgow
Mt. Pitary's
Crumpacker's Mill
Gladwell's
Henege Mill
Field's Mill
Dameys Mill
Spring Cr.
Brown's Coal Bank
Brookfield Shaft and Bore.
St. Catherine Shaft and Bore
Explanations of Abbreviations.
Arg. = Argillaceous
Ar. = Arenaceous
Bdd. = Bedded
Bit. = Bituminous
Bl. = Blue
Blsh = Bluish
Blk. = Black
Bf. = Buff
Br. = Brown
Brsh Brownish
Calc. = Calcareous
Carb. = Carbonate
Cl. = Clay
Col. = Colored
Concr. = Concretionary
Concs. = Concretions
Congl. = Conglomerate
Cryst. = Crystalline
Dk. = Dark.
Dr. = Drab
Ev. Bdd. = Even Bedded
Fer. = Ferruginous
Fr. Cl. = Fire Clay
Fossilf. Fossiliferous
Glob. = Globular
Gr. = Green
Gyp. = Gypsiferous
Hd. = Hard
Hem. = Hematite
Ir. = Iron
Irreg. Irregularly
Ironst. = Ironstone
Li. = Limestone
List. = "
Limest. = "
Lt. = Light.
Lent. = Lenticular
Low. = Lower
Mot. = Mottled
Mic. = Micaceous
Ndlr. = Nodular
Nds. = Nodules
Och Ochre
Ochy. Ochry
Ochs Ochreous
Ol Olive
Pur. = Purple
Pyr. = Pyritiferous
Rd. = Red
Rh. = Rhomboidal
Rhomb. = " "
Rgh. = Rough
Rot. = Rotten
Sd. = Sand
Sdy. = Sandy
Sdst. = Sandstone
Sel. = Selenite
Sh. = Shales
Shy Shaly
Sil. = Silicious
Sl. = Slate
Strkd. = Streaked
Strk. = Streak
Vit. = Vitreous
Wh. = White
Yel. = Yellow
Yelsh. = Yellowish
A. Gast & Co. Lith. St. Louis

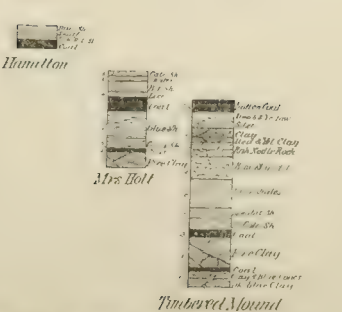

Round Mound
Sec 16. T. 33. R. 32
Sec 19 T. 32 R. 32.
Dr. Moreroad
E. Br. Drywood Cr.
at Mouth in Sec. 27. T. 33 R. 33
Sec 6 T. 32 R. 27
Neil & Gilbert
Drywood Cr.
Moundville & Vicinity
Vernon Co.
Blue Mound
Mooney's Well
Sec. 10. T. 31 R. 33
Kent's Bank
Sec. 14. T. 31 R. 33
Sec 23. T. 31 R. 33



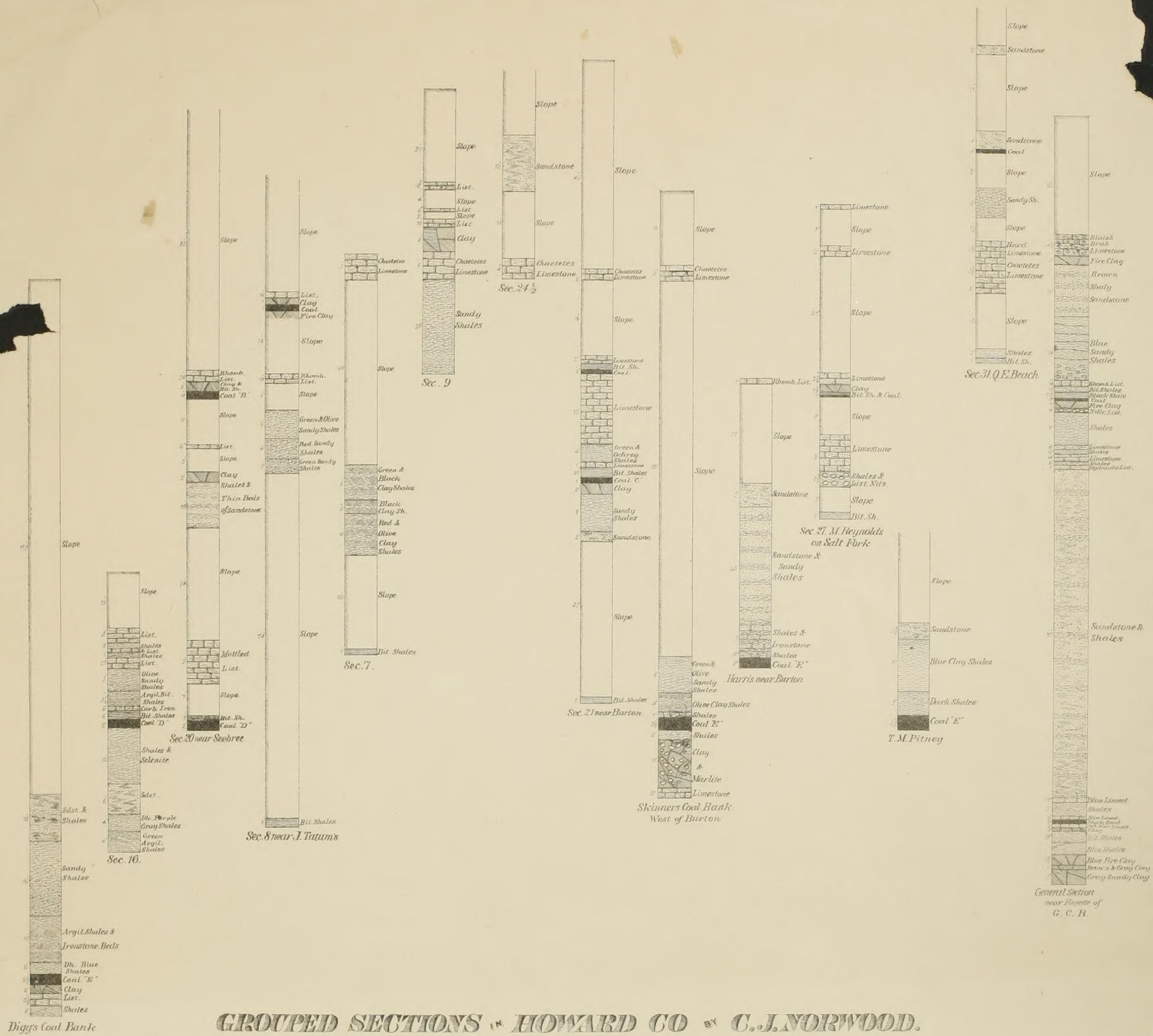
SECTIONS IN BARTON COUNTY.







SECTIONS IN BATES AND VERNON COUNTIES



GROUPED SECTIONS IN HOWARD CO BY C. J. NORWOOD.

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